

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: March 1, 2001, 16:09:27 ; Search time 299.73 Seconds
(without alignments)
18.379 Million cell updates/sec

Title: US-09-331-631a-7_COPY_34_80
Perfect score: 258
Sequence: 1 YERDPROQYEQCQRCESEA.....QCEFCERYKEQQQEE 47

Scoring table: BLOSUM62
Gap pop 10.0 , Gapext 0.5

Searched: 374700 seqs, 117207915 residues

Total number of hits satisfying chosen parameters: 374700

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

SPTRMBL_15:
1: sp_archea: *
2: sp_bacteria: *
3: sp_Fungi: *
4: sp_human: *
5: sp_invertebrate: *
6: sp_mammal: *
7: sp_mhc: *
8: sp_organelle: *
9: sp_Phage: *
10: sp_Plant: *
11: sp_Rodent: *
12: sp_virus: *
13: sp_vertebrate: *
14: sp_unclassified: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
1	258	100.0	525	10	Q41358	PRELIMINARY; PRN: 525 AA.
2	157	60.9	625	10	Q43358	AC Q43358; DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update) DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
3	157	60.9	666	10	Q9SP13	DE VICTILIN PRECURSOR.
4	154	59.7	666	10	Q9SP14	GN Theobroma cacao (Cacao). OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta; OC Magnoliophyta; eudicots; core eudicots; Rosidae; eurosids II; OC Malvales; Malvaceae; Theobroma. OX NCBI_TaxID=3641;
5	146	56.6	593	10	Q9SW4	[1]
6	95	36.8	1038	5	Q60983	SEQUENCE FROM N.A. RX MEDLINE=92288309; PubMed=1600151; RA McHenry L., Fitz P.J.; "Comparison of the structure and nucleotide sequences of vicilin genes of cacao and cotton raise questions about vicilin evolution."; RL Plant Mol. Biol. 18:1173-1176(1992).
7	90.5	35.1	1089	12	Q40947	DR EMBL; X62626; CAA44494.1; -.; DR HSSP1; P02853; PHB. DR MENDEL; 30919; TMCC; 1188; 30919.
8	90	34.9	810	10	Q9W13	DR INTERPRO; IPR001113; -.; PFAM; PF00546; Seedstore_7s; 1. DR PRODOM; PD001059; -. 1. DR SIGNAL; KW signal. FT SIGNAL 1 24 POTENTIAL. FT CHAIN 25 525 VICTILIN.
9	89.5	34.7	1129	12	Q9QR1	SEQUENCE 525 AA; 60798 MW; 19114CD5C248905D CRC64;
10	88.5	34.3	393	10	Q421P0	Query Match 100.0%; Score 258; DB 10; Length 525; Best Local Similarity 100.0%; Pred. No. 5. 3.e-20; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
11	85	32.9	551	10	Q43607	DR PRUNUS DULCIS (SWEET CHERRY). DR O98148 kaposi's sa O98148 babesia big O95788 rattus norvegicus O91957 dictyostelium discoideum Q9nw29 homo sapien Q9ng57 homo sapien Q9P33 drosophila Q9V26 drosophila
12	85	32.9	1162	12	Q98148	Query Match 100.0%; Score 258; DB 10; Length 525; Best Local Similarity 100.0%; Pred. No. 5. 3.e-20; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
13	84	32.6	1108	5	Q9ND10	DR O98148 kaposi's sa O95788 rattus norvegicus O91957 dictyostelium discoideum Q9nw29 homo sapien Q9ng57 homo sapien Q9P33 drosophila Q9V26 drosophila
14	84	32.6	1339	11	Q95788	Query Match 100.0%; Score 258; DB 10; Length 525; Best Local Similarity 100.0%; Pred. No. 5. 3.e-20; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
15	84	32.6	2123	5	Q9U957	DR O95788 rattus norvegicus O91957 dictyostelium discoideum Q9nw29 homo sapien Q9ng57 homo sapien Q9P33 drosophila Q9V26 drosophila
16	83.5	32.4	251	4	Q9NW29	Query Match 100.0%; Score 258; DB 10; Length 525; Best Local Similarity 100.0%; Pred. No. 5. 3.e-20; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
17	83	32.2	919	4	Q9NG57	DR O95788 rattus norvegicus O91957 dictyostelium discoideum Q9nw29 homo sapien Q9ng57 homo sapien Q9P33 drosophila Q9V26 drosophila
18	82.5	32.0	554	5	Q9VP53	Query Match 100.0%; Score 258; DB 10; Length 525; Best Local Similarity 100.0%; Pred. No. 5. 3.e-20; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
19	82	31.8	314	5	Q9VR26	Query Match 100.0%; Score 258; DB 10; Length 525; Best Local Similarity 100.0%; Pred. No. 5. 3.e-20; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ALIGNMENTS

20	82	31.8	608	10	Q9SU12	O9su12 araidopsis
21	82	31.8	1027	4	Q9NST7	Q9nst7 homo sapien
22	82	31.8	1165	4	Q95819	Q95819 homo sapien
23	82	31.8	1175	4	Q95172	Q95172 homo sapien
24	82	31.8	1233	11	P97820	P97820 mus musculus
25	82	31.8	1257	4	Q95033	Q95033 homo sapien
26	82	31.8	1990	5	Q9UB00	Q9ub00 drosophila
27	82	31.8	1991	5	Q9W244	Q9w244 drosophila
28	80.5	31.2	406	2	Q9D306	Q9d306 borrelia bu
29	80	31.2	503	5	Q25777	Q25777 plasmid
30	80	31.0	293	5	Q15988	Q15988 patinopecte
31	80	31.0	314	5	Q15987	Q15987 patinopecte
32	80	31.0	1351	5	Q96242	Q96242 plasmid
33	79.5	30.8	411	5	P91419	P91419 caenorhabdi
34	79	30.6	199	5	Q90952	Q90952 dictyosteli
35	79	30.6	304	4	Q15409	Q15409 homo sapien
36	79	30.6	517	5	Q9W408	Q9w408 drosophila
37	79	30.6	655	4	Q9W83	Q9w83 homo sapien
38	79	30.6	712	4	Q9NY82	Q9ny82 homo sapien
39	79	30.6	749	4	Q14244	Q14244 homo sapien
40	79	30.6	910	11	Q54899	Q54899 mus musculus
41	79	30.6	910	11	Q88704	Q88704 mus musculus
42	79	30.6	947	5	Q9XK5	Q9xk5 caenorhabdi
43	79	30.6	1121	4	Q94922	Q94922 homo sapien
44	78.5	30.4	948	5	Q22155	Q22155 caenorhabdi
45	78	30.2	630	5	Q9W4J3	Q9w4j3 drosophila

RESULT	2	RESULT	4
ID	Q9SP3	ID	Q9SP5
AC	Q9SP3;	AC	Q9SP5;
DT	01-MAY-2000 (TREMBLrel. 13, Created)	DT	01-MAY-2000 (TREMBLrel. 13, Created)
DT	01-MAY-2000 (TREMBLrel. 13, Last sequence update)	DT	01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)	DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)
DE	VICILIN PRECURSOR (FRAGMENT).	DE	VICILIN PRECURSOR.
GN	AMP2.	GN	AMP2.
OS	Macadamia integrifolia (Macadamia nut).	OS	Macadamia integrifolia (Macadamia nut).
OC	Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;	OC	Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
OC	Magnoliophyta; eudicots; Proteaceae; Macadamia.	OC	Magnoliophyta; eudicots; Proteaceae; Macadamia.
NCBI_TaxID=60698;	[1]	NCBI_TaxID=60698;	[1]
RN	SEQUENCE FROM N_A.	RN	SEQUENCE FROM N_A.
RC	TISSUE=NUT KERNEL;	RC	TISSUE=NUT KERNEL;
RA	Marcus J.P., Goultier K.C., Green J.L., Manners J.M.;	RA	Marcus J.P., Goultier K.C., Green J.L., Manners J.M.;
RT	"A family of antimicrobial peptides is produced by processing of a 7S globulin protein in Macadamia integrifolia.";	RT	"A family of antimicrobial peptides is produced by processing of a 7S globulin protein in Macadamia integrifolia kernels.";
RL	Plant J. 0:0-0(1999).	RL	Plant J. 0:0-0(1999).
EMBL	AF161885; AAD51246; 1; -.	EMBL	AF161885; AAD51246; 1; -.
HSSP	P02833; 2PHL.	HSSP	P02833; 2PHL.
DR	INTERPRO; IPR001113; -.	DR	INTERPRO; IPR001113; -.
DR	PFAM; PF00546; Seedstore_7s; 1.	DR	PFAM; PF00546; Seedstore_7s; 1.
FT	NON_TER 1	FT	NON_TER 1
SQ	625 AA; 73586 MW; 415808A89D370296 CRC64;	SQ	666 AA; 78217 MW; C752B884B2DF0224 CRC64;
RESULT	3	Query Match	59.7%; Score 154; DB 10; Length 666;
Q9SP4	PRELIMINARY; PRT; 666 AA.	Best Local Similarity	51.1%; Pred. No. 5. 9e-09;
ID	Q9SP4	Matches	23; Conservative 13; Mismatches 9; Indels 0; Gaps 0;
AC	Q9SP4;	AC	Q9SEW4;
DT	01-MAY-2000 (TREMBLrel. 13, Created)	DT	01-MAY-2000 (TREMBLrel. 13, Created)
DT	01-MAY-2000 (TREMBLrel. 13, Last sequence update)	DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)
DT	01-OCT-2000 (TREMBLrel. 15, Last annotation update)	DE	VICILIN-LIKE PROTEIN PRECURSOR (FRAGMENT).
DE	VICILIN PRECURSOR.	OS	Juglans regia (English walnut).
GN	AMP2.	OC	Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
OS	Macadamia integrifolia (Macadamia nut).	OC	Magnoliophyta; eudicots; Rosidae; eurosids 1;
OC	Eukaryota; Viridiplantae; Embryophyta; Spermatophyta;	OC	Magnoliophyta; eudicots; Juglandaceae; Juglans.
OC	Magnoliophyta; eudicotyledons; Proteaceae; Macadamia.	OX	Fagales; Juglandaceae; Juglans.
NCBI_TaxID=60698;	[1]	NCBI_TaxID=51240;	[1]
RN	SEQUENCE FROM N_A.	RN	SEQUENCE FROM N_A.
RC	STRAIN=CV; SUNLAND; TISSUE=SOMATIC EMBRYO LINE;	RC	STRAIN=CV; SUNLAND; TISSUE=NUT KERNEL;
RA	Treuber S.S., Jarvis K.C., Peterson W.R., Danodekar A.M., Anvari A.A.;	RA	Treuber S.S., Jarvis K.C., Peterson W.R., Danodekar A.M., Anvari A.A.;
RT	"Identification and cloning of a cDNA encoding a vicilin-like protein, ";	RT	"Identification and cloning of a cDNA encoding a vicilin-like protein, ";
RT	Jug r 2, from English walnut kernel (Juglans regia): a major food allergen.;"	RT	Jug r 2, from English walnut kernel (Juglans regia): a major food allergen.;"
RL	Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.	RL	Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
DR	EMBL; AF06055; AAF18269; 1; -.	DR	EMBL; AF06055; AAF18269; 1; -.
DR	HSSP; P02833; 2PHL.	DR	HSSP; P02833; 2PHL.
DR	INTERPRO; IPR001113; -.	DR	INTERPRO; IPR001113; -.
DR	PFAM; PF00546; Seedstore_7s; 1.	DR	PFAM; PF00546; Seedstore_7s; 1.
FT	NON_TER 1	FT	NON_TER 1
SQ	593 AA; 6990 MW; 9BA127E19B18C0D8 CRC64;	SQ	593 AA; 6990 MW; 9BA127E19B18C0D8 CRC64;
Query Match	60.9%; Score 157; DB 10; Length 666;	Query Match	56.6%; Score 146; DB 10; Length 593;
Best Local Similarity	53.3%; Pred. No. 2. 8e-09;	Best Local Similarity	45.8%; Pred. No. 3. 7e-08;
Matches	24; Conservative 12; Mismatches 9; Indels 0; Gaps 0;	Matches	27; Conservative 8; Mismatches 10; Indels 14; Gaps 1;
OY	2 ERDPQQYEQCORRSEATEEREEBOEQCOREREKEDORQEE 46	OY	3 RDPRQQYEQCORRSEATEEREEBOEQCOREREKEDORQEE 47
Db	119 QRDPOQYEQOCQKHCORREEPFRHMTCQQRERRYEKKRQQK 163	Db	119 QRDPOQYEQOCQKHCORREEPFRHMTCQQRERRYEKKRQQK 163

